



Order Number

Analytical Laboratory

13339 Hagers Ferry Road Huntersville, NC 28078-7929 McGuire Nuclear Complex - MG03A2 Phone: 980-875-5245 Fax: 980-875-4349

Order Summary Report

110100033

Customer Name(s):	Sue Wallace, Matthew Dorn, Mark Ha	arper, Todd	Spade, Tara Thomas	i
Customer Address:	11021 BROWER RD.			
	NORTH BEND, OH 45052			
Lab Contact:	Therona T James	Phone:	704-875-4795	
Report Authorized By: (Signature)		Date	9 :	10/29/2010

Program Comments:

Miami Fort NPDES Week 1

Data Flags & Calculations:

Any analytical tests or individual analytes within a test flagged with an "X" or "1" indicate a deviation from the method quality system or quality control requirement. All results are reported on a dry weight basis unless otherwise noted.

Data Package:

This data package includes analytical results that are applicable only to the samples described in this narrative. An estimation of the uncertainty of measurement for the results in the report is available upon request. This report shall not be reproduced, except in full, without the written consent of the Analytical Laboratory. Please contact the Analytical laboratory with any questions. The order of individual sections within this report is as follows:

Job Summary Report, Sample Identification, Technical Validation of Data Package, Analytical Laboratory Certificate of Analysis, Analytical Laboratory QC Reports, Sub-contracted Laboratory Results, Customer Specific Data Sheets, Reports & Documentation, Customer Database Entries, Test Case Narratives, Chain of Custody (COC)

Certification:

The Analytical Laboratory holds the following State Certifications: North Carolina (DENR) Certificate #248, South Carolina (DHEC) Laboratory ID # 99005. Contact the Analytical Laboratory for definitive information about the certification status of specific methods.

The results in this report meet NELAP requirements through New York State Department of Health Certification # 11717.

Sample ID's & Descriptions:

Sample ID	Plant/Station	Collection Date and Time	ne Collected By Sample Description		
2010008810	MIAMI-FORT	05-Oct-10 8:00 AM	Mark Harper	OUTFALL 002	
2010008820	MIAMI-FORT	05-Oct-10 8:10 AM	Mark Harper	OUTFALL 608	
2 Total Samples					

Technical Validation Review

Checklist:

Jenny A Herman

Reviewed By:

	COC and .pdf report are in agreement with sample and analyses (compliance programs and procedure	✓ Yes	☐ No		
	All Results are less than the laboratory reporting lim	Yes	✓ No		
	All laboratory QA/QC requirements are acceptable.	✓ Yes	□ No		
	The Vendor Laboratories have been qualified by the Analytical Laboratory	•			
Report S	Sections Included:				
✓ J	ob Summary Report	☐ Sub-contracted Laboratory Results			
✓ s	ample Identification	☐ Customer Specific Data Sheets, Reports, & Documentation			
✓ T	echnical Validation of Data Package	☐ Customer	Database Ent	tries	
✓ A	nalytical Laboratory Certificate of Analysis	☐ Test Case	e Narratives		
□ A	nalytical Laboratory QC Report	✓ Chain of Custody			
		Electronic	: Data Delivera	able (EDD) Sent Separately	

Date:

10/29/2010

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J10100033

Site: OUTFALL 002					Sample	e #:	2010008810	
Collection Date: 05-Oct-10	8:00 AM				Matrix:		NPDES	
Analyte	Result	Units	Qualifiers	RDL	Method		Analysis Date/Time	Analyst
TOTAL DISSOLVED SOLIDS								
TDS	1200	mg/L		10	SM2540D		07-Oct-10 15:20	CLEEMAN
Site: OUTFALL 608					Sample	e #:	2010008820	
Collection Date: 05-Oct-10	8:10 AM				Matrix:		NPDES	
Analyte	Result	Units	Qualifiers	RDL	Method		Analysis Date/Time	Analyst
ALKALINITY (FIXED END POINT	4.5)						-	-
Alkalinity (mg/L CaCO3)	1400	mg/L (C	aC	0.1	SM2320B		08-Oct-10 09:17	CLEEMAN
INORGANIC IONS BY IC								
Chloride	6600	mg/L		100	EPA 300.0		07-Oct-10 13:13	CLEEMAN
Fluoride	12	mg/L		10	EPA 300.0		07-Oct-10 13:13	CLEEMAN
Sulfate	17000	mg/L		200	EPA 300.0		07-Oct-10 13:13	CLEEMAN
TOTAL METALS BY ICP								
Boron (B)	382	mg/L		2.5	EPA 200.7		11-Oct-10 14:48	MHH7131
Manganese (Mn)	0.076	mg/L		0.005	EPA 200.7		11-Oct-10 14:48	MHH7131
TOTAL RECOVERABLE METALS	BY ICP-MS							
Arsenic (As)	< 20	ug/L		20	EPA 200.8		12-Oct-10 10:30	KRICHAR
Barium (Ba)	118	ug/L		20	EPA 200.8		12-Oct-10 10:30	KRICHAR
Cadmium (Cd)	< 20	ug/L		20	EPA 200.8		12-Oct-10 10:30	KRICHAR
Chromium (Cr)	< 20	ug/L		20	EPA 200.8		12-Oct-10 10:30	KRICHAR
Copper (Cu)	< 20	ug/L		20	EPA 200.8		12-Oct-10 10:30	KRICHAR

Iron (Fe)	133	ug/L	20	EPA 200.8	12-Oct-10 10:30	KRICHAR
Lead (Pb)	< 20	ug/L	20	EPA 200.8	12-Oct-10 10:30	KRICHAR
Zinc (Zn)	44.8	ug/L	40	EPA 200.8	12-Oct-10 10:30	KRICHAR
TOTAL DISSOLVED SOLIDS						
TDS	39000	mg/L	10	SM2540D	07-Oct-10 15:20	CLEEMAN
TOTAL SUSPENDED SOLIDS						
TSS	10	mg/L	5	SM2540D	07-Oct-10 19:33	CLEEMAN

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM Page 5 of 5 **Duke Energy Analytical Laboratory Analytical Laboratory Use Only Duke Energy**₅... ¹⁹Page <u>↓</u> of Sample Class NPDES Mail Code MGO3A2 (Building 7405) DISTRIBUTION 70100033 Logged By Date 13339 Hagers Ferry Rd ORIGINAL to LAB, Huntersville, N. C. 28078 SAMPLE PROGRAM COPY to CLIENT (704) 875-5245 Ground Water Fax: (704) 875-4349 NPDES X 1)Project Name Drinking Water **MIAMI-FORT NPDES Monthly** UST (Monthly Sampling -October 5) RCRA Waste Cooler Temp (C) 3)Client 4)Fax No: 5Preserv.:1=HCL Miami-Fort - Sue Wallace, Tara Thomas 2=H2SO4 3=HNO 3 4=Ice 5=None 5)Business Unit: 7)Resp. Center To: MR# 16 Analyses Required As,Fe, Ba, B, Mn Zn, Cd, Pb, Cr, Cu 8)Project ID: 9)Activity ID: 10)Mail Code: Customer to complete all **Alkalinity** appropriate non-shaded areas. As,Fe, Ba, CI, F, SO4 ¹⁴Collection Information LAB USE ONLY 18Grab ¹²Chem TDS ¹³Sample Description or ID Desktop No. Date Signature 2010/008810 X Outfall 002 Outfall 608 Х 2 Customer to sign & date below - fill out from left to right. 2) Accepted By ²²Requested Turnaround Customer, IMPORTANT! Please indicate desired turnaround. 10 5-10 08404KG 4) Accepted B 6)Accepted By: 7)Relinguished By Date/Time 8)Accepted By: Date/Time Date/Time 10) Seal/Lock Opened By *Other 10-5-10 0840 HRS * Add. Cost Will Apply 11)Seal/Locked By Date/Time 12)Sea/Lock Opened Comments

Analytical Lab